OTC 3210 Codeconnect® with ABS & Airbag

Quick Start Guide

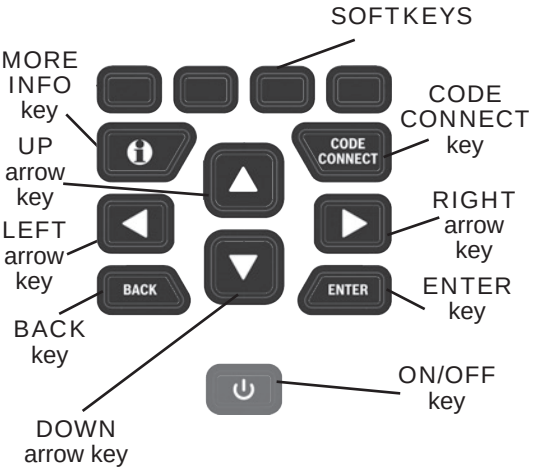
The Quick Start Guide was developed to help you get started using the Scan Tool.

Contents

1 General Scan Tool Information

1.1 User Interface

The scan tool is designed for easy use. All menus and lists operate the same way.



- ▲ **UP** or ▼ **DOWN** arrow keys allow movement through lists and menus.
- ◀ **LEFT** or ▶ **RIGHT** arrow keys moves between Answers and Recorded Data Frames.
- ENTER key selects item.
- BACK key returns to previous screen.
- **ON/OFF** key turns scan tool on or off when powered by batteries.
- CODE CONNECT key allows the operator to access vehicle-specific repair information.
- **MORE INFO** key displays the Diagnostic Trouble Code (DTC) definition when viewing Freeze Frame Data. It will display the code setting criteria when viewing DTC definition.
- **SOFTKEYS** are used to perform the specified action on the display directly above the key.

1.1.2 Display Icons

- Indicates additional information is available by scrolling down.
- Indicates additional information is available by scrolling up.
- Indicates the internal batteries need replaced or are not installed.
- Indicates selected items in a data list or that data is available for items on the Review Data and Print Data Menu.
- CODE Indicates the CODE CONNECT key is active.
- Indicates graphical viewing of data items is available in View Data and when playing back previously recorded data.
- Indicates the key is active.

2 Download Scanning Suite

- Go to otctools
  and download the Scanning Suite PC application.
- Scanning Suite is NOT required to operate the Scan Tool.
- Install the downloaded Scanning Suite application prior to connecting the Scan Tool to the PC.
- Some of the items included in Scanning Suite are:
  – Tool update software
  – Print Capture
- To be able to use Scanning Suite the PC must meet the following minimum requirements:
  – Microsoft Windows 7, 8, and 10.
  – Adobe Acrobat Reader
  – Screen Resolution of 800 × 600

> If screen resolution is 800 × 600, in Display Properties, Settings Tab, set Font Size to Small Fonts.

- Use Scanning Suite to determine if any updates are available for your tool by clicking Check for Update button.
- You can also configure the Scanning Suite Frequency (SS Frequency) to automatically check every xx minutes. The default frequency is 30 minutes.

3 Using Your Scan Tool

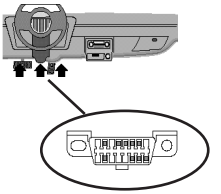
3.1 Installing Internal Batteries

Scan Tool requires 4-AAA alkaline batteries only when operating tool without vehicle power, otherwise tool is powered by vehicle battery.
When internal batteries need replaced, the low-battery icon () displays.

1. Place display face down on a non-abrasive surface.
2. Remove battery cover by turning screw counterclockwise and sliding cover off.
3. Remove batteries and properly discard.
4. Install 4 new AAA Alkaline Batteries.
5. Reinstall battery cover by sliding on and turning screw clockwise.

NOTE: Do not overtighten screw.

3.2 Locating the OBD II Data Link Connector (DLC)



- The OBD II Data Link Connector (DLC) is usually located under the driver's side dash.
- Refer to user's manual for DLC location.

NOTE: When tool is connected to the vehicle's DLC, power to the tool comes from the vehicle.

3.3 Connect the Tool

1. Locate the OBD II Data Link Connector under the steering column. If the connector is not there, a label should be there indicating the whereabouts of the connector.
2. If necessary, remove the cover from the vehicle connector.
3. Turn the ignition switch to the ON position. Do not start the engine.
4. Plug the OBD II connector attached to the Tool into the Data Link connector.
5. The tool will attempt to identify the vehicle. If successful, the vehicle identified will be displayed. If vehicle couldn't be identified, menus will be shown for you to select the vehicle manually.
6. The tool can support up to 5 previous vehicles in the garage. If you already have 5 vehicles in your garage, the tool will display a menu asking you which previous vehicle to replace with the currently identified vehicle.
7. Review Quick Test Results.
8. Go to ***Diagnostic Menu*** by pressing ENTER.

4 CodeConnect® Feature

CodeConnect® is an experience-based database derived from millions of phone calls from technicians seeking assistance diagnosing repair problems on their vehicles. CodeConnect® brings the technology of professional technicians to a DIY scan tool. Don't waste time trying to find the answer. With the information CodeConnect® offers, it takes vehicle repairs to the next level. Since you now know the most probable fix for your problem, you can decide if you want to tackle the repair yourself, or bring the vehicle to a local automotive repair facility.

IMPORTANT: For CodeConnect® to work, you must select your specific vehicle during vehicle selection. A Global OBD II vehicle selection will not provide any CodeConnect® information. The power of CodeConnect® is that repair information is vehicle and trouble code specific and is based on the largest experience-based database available.

CodeConnect® information is available whenever the  icon is visible on the display. The CodeConnect® icon has the potential of being displayed while trouble codes are being displayed from Read Codes or while Viewing Freeze Frame data. Also, when you print codes to your PC, the CodeConnect® information, if available, will also be printed.

- CodeConnect® information is currently only available in English, so if your tool is set to Spanish or French, don't be alarmed if your DTC text is in one language and your CodeConnect® information is shown in English.

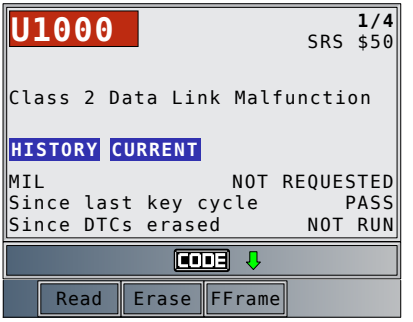
How to use ***CodeConnect®***:

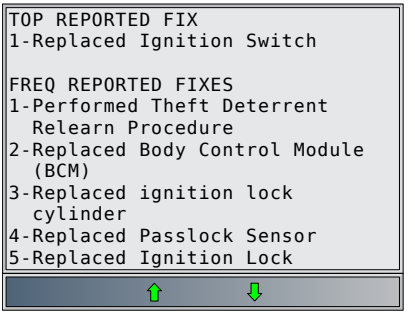
1. When the CODE icon is shown on the display, press the CODE CONNECT key.
2. Scroll through the code-specific repair information.
   - Use ▲ **UP** or ▼ **DOWN** arrow keys to scroll one line at a time.
   - Use ◀ **LEFT** or ▶ **RIGHT** arrow keys to scroll one screen at a time.

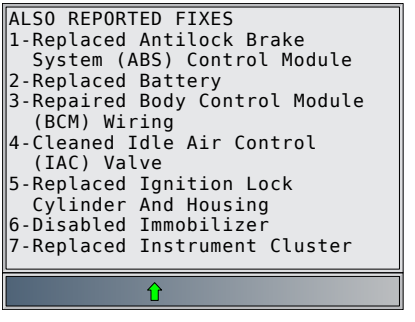
There are 3 levels of reported fixes:

Fix Level	Description
Top Reported Fix	More likely to be the solution over other choices provided
Frequently Reported Fix	As likely as other solutions
Also Reported Fix	Less likely than other solutions provided, but worth considering.

3. To return to the screen from which you pressed the CODE CONNECT key, press the BACK key.







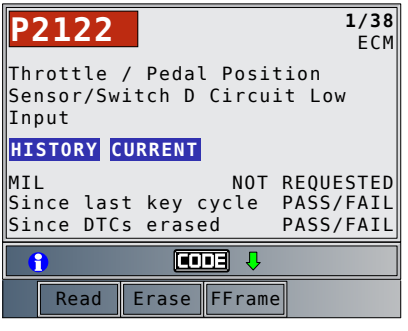
5 Code Criteria

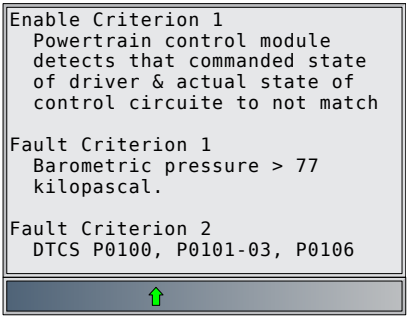
The Code Criteria feature will detail the conditions required for a DTC to be set by the vehicle. The vehicle is constantly running self-tests on its systems. Code Criteria will describe the conditions under which the vehicle can initiate the test. These are called “Enable” criterion. Code Criteria will also describe the the conditions that will cause a DTC to set. These are called “Failure” criterion. Code Criteria is not available for every DTC. Code Criteria is currently only available in English, so if your tool is set to Spanish or French, don’t be alarmed if your DTC text is in one language and your Code Criteria information is shown in English.

How to use ***Code Criteria***:

1. When the icon is shown on the display, press the key.
2. Scroll through the Code Criteria information noting. If a vehicle has multiple sets of criteria for the DTC, a menu is displayed, so that the tool can provide the most accurate criteria for your specific vehicle.
3. Use the ▲ **UP** or ▼ **DOWN** arrow keys to scroll one line at a time.
4. Use the ◀ **LEFT** or ▶ **RIGHT** arrow keys to scroll a whole screen at a time.

- To return to the DTC definition screen, press the BACK key.





6 Tool Menus

The **Main Menu** and **Diagnostic Menu** are broken down into the following menus. Not every function will be on the menus for every vehicle. Some functions are vehicle specific, so they will not appear on every menu.

Function	Menu	Description
Acronyms	Main, Diagnostic, Datastream, Diagnostic Codes, Special Functions, On Demand Tests	Allows the user to view acronyms and abbreviations used by the Scan Tool.
Auto-Power Off	System Setup	Allows the tool to turn off automatically after a selected amount of time when tool is not being used.
Battery/ Charging Services	Special Functions	Menu selection that provides a list of Battery/Charging services supported by the selected vehicle such as informing the vehicle that a new battery has been installed.
Brake Services	Special Functions	Menu selection that provides a list of brake related services supported by the selected vehicle such as retracting pistons in calipers, or resetting the brake pad ware sensor.
Charging System Monitor	Special Functions	This function is used to monitor the voltage present on pin 16 of the OBD II Data Link connector.

Function	Menu	Description
Code Lookup	Main, Diagnostic, Datastream, Diagnostic Codes, Special Functions, On Demand Tests	Looks up definitions of DTCs stored in Scan Tool.
Component Locator	Diagnostic, Datastream, Diagnostic Codes, Special Functions, On Demand Tests	Tool will display a list of components and their locations on the vehicle. This selection will appear on the Diagnostic Menu only when the tool has a list of component locations for the currently selected vehicle.
Datastream	Diagnostic	Menu selection that provides the functions of View Data or Record Data.
Diagnostic Codes	Diagnostic	Menu selection that provides the functions of Read Codes, Erase Codes, and View Freeze Data.
Diagnostic Monitor Tests	Global OBDII Functions	Reads test results for emission related powertrain components and systems that are and are not continuously monitored.
Display Test	System Setup	Used to check the display.
Drive Cycle Monitor	Global OBDII Functions	Displays the current state of the vehicle's OBD II Monitors in Real Time.
English/Metric	System Setup	Changes measurement units.
Erase Codes	Diagnostic Codes	Deletes DTCs from vehicle's memory.

Function	Menu	Description
Fuel Consumption (MPG/KPL)	Special Functions	This function will calculate your fuel mileage for the current trip in real time. It is only supported on vehicles equipped with a Mass Air flow Sensor (MAF). Results may differ slightly from actual calculations derived from dividing miles driven by fuel added.
Global OBDII Functions	Special Functions	Menu selection that provides a list of Global OBDII Functions such as I/M Monitors and O2 Monitor Tests.
I/M Monitors	Global OBDII Functions	Displays a snapshot of the state of the vehicle's OBD II Monitors.
Keypad Test	System Setup	Verifies that the keys are working correctly.
KOEO Injector Buzz	On Demand Tests	This function is supported on Ford Diesel engines. This test determines if the injector circuits and solenoids are operating correctly and without faults.
KOEO On Demand	On Demand Tests	This function executes the Ford Key On Engine Off Self Test. It tests the inputs, outputs, and sensor ranges while the engine is off. Any faults will be displayed as DTCs.

Function	Menu	Description
KOEO Output State	On Demand Tests	This function tests output devices such as actuators, solenoids, and relays controlled by the powertrain computer module. This test will toggle the devices ON / OFF and a voltmeter can be used to verily the signal is actually reaching the output device.
KOER Cylinder Contribution	On Demand Tests	This function is supported on Ford Diesel engines. This test determines that all cylinders are contributing equally to engine performance.
KOER Glow Plug	On Demand Tests	This function is supported on Ford Diesel engines. This test activates the glow plug relay and detects any difference in the amount of current between both banks of glow plugs. DTCs returned from this test indicate which bank has failed glow plugs or failed wiring.
KOER On Demand	On Demand Tests	This function executes the Ford Key On Engine Running Self Test. It tests the inputs, outputs, and sensor ranges while the engine is running. Any faults will be displayed as DTCs.
Language Setup	System Setup	Allows the user to change the language used by the tool. English is the default.

Function	Menu	Description
Long PID Names	System Setup	Allows the user to enable/disable the tool scrolling the complete PID name on the bottom line of the display while viewing live data or viewing freeze data.
MIL Status	Global OBDII Functions	Displays whether the Malfunction Indicator Lamp is on or off.
Memory Test	System Setup	Checks RAM and Flash ROM.
Modules Present	Global OBDII Functions	Views the status of all OBD II compliant modules.
O2 Monitor Tests	Global OBDII Functions	The O2 Monitor Tests is NOT an ON-DEMAND TEST. This Function displays oxygen sensor monitoring test results from the vehicle's memory.
On-Board Systems	Global OBDII Functions	Scan tool controls the operation of vehicle components, tests or systems.
On Demand Tests	Diagnostic	Menu selection that provides the list of On Demand Tests for the selected vehicle.
Pre-Trigger Setup	System Setup	This function is used to configure how many Pre-Trigger frames are stored prior to beginning a recording.
Print Data	Main, Diagnostic, Datastream, Diagnostic Codes, Special Functions, On Demand Tests	Prints diagnostic information stored in the Scan Tool. (Refer to Users Manual)

Function	Menu	Description
Print Header	System Setup	Allows the user to turn off the Scan Tool printing the currently-selected vehicle prior to the retrieved vehicle data when selecting items from the Print Data menu.
Program Mode	System Setup	Used for updating the Scan Tool.
Quick Test	System Setup	Allows the user to turn off the Scan Tool performing Read Codes and I/M Monitors after vehicle selection when the Scan Tool is connected to the vehicle.
Read Codes	Diagnostic Codes	Reads DTCs from vehicle's computers.
Record Data	Datastream	Records vehicle PIDs while vehicle is parked or being driven. This function is for diagnosing intermittent driveability problems.
Recording	System Setup	Plays back a recording that allows viewing of previously-recorded PIDs.
Review Data	Main, Diagnostic, Datastream, Diagnostic Codes, Special Functions, On Demand Tests	Allows review of data stored in Scan Tool.
Service Light Reset	Special Functions	Menu selection that provides a list of service lights that can be reset for the selected vehicle such as Oil Change light.

Function	Menu	Description
Special Functions	Diagnostic	Menu selection that provides access to the Brake Services, Steering Services, Battery/Charging Services, Service Light Reset menus, and Global OBDII Functions menus.
State OBD Check	Global OBDII Functions	Displays a basic status of the vehicle's OBD system.
Steering Services	Special Functions	Menu selection that provides a list of steering related services supported by the selected vehicle such as resetting the steering angle sensor.
System Setup	Main, Diagnostic, Datastream, Diagnostic Codes, Special Functions, On Demand Tests	Changes tool settings, displays tool information, and performs tool self-tests.
Tool Information	System Setup	Allows the user to view specific tool information that may be needed when contacting customer service.
Vehicle Diagnostics	Main	Use this menu selection to select a vehicle and then proceed to the Diagnostic Menu.

Function	Menu	Description
Vehicle Information	Global OBDII Functions	Scan tool displays the vehicle's VIN number, Calibration ID(s) and CVN that identify the software version in the vehicles control module(s). The tool also displays In-Use Performance Tracking of important readiness monitors.
View Data	Datastream	Views vehicle Parameter Identification Data (PIDs) in real time. PIDs are displayed in either a text format or graph format when available.
View Freeze Data	Diagnostic Codes	Displays a snapshot of operating conditions at the time of a fault.